

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/579,662
Source: JFWP
Date Processed by STIC: 5/30/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/579,662

CRF Edit Date: 5/30/06
Edited by: AR

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

— Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

J

Other:

converted <141> line



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/579,662

DATE: 05/30/2006
TIME: 16:07:42

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05302006\J579662.raw

3 <110> APPLICANT: ELENA FEINSTEIN et al.
 5 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF KIDNEY FIBROSIS AND OTHER
 FIBROTIC
 6 DISEASE
 8 <130> FILE REFERENCE: 71541-A-PCT-US; 133/PCT1-US1
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/579,662
 C--> 11 <141> CURRENT FILING DATE: 2006-05-17
 13 <150> PRIOR APPLICATION NUMBER: 60/520,935
 14 <151> PRIOR FILING DATE: 2003-11-17
 16 <150> PRIOR APPLICATION NUMBER: PCT/IL 2004/001049
 17 <151> PRIOR FILING DATE: 2004-11-16
 19 <160> NUMBER OF SEQ ID NOS: 8
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 3225
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (1)..(3225)
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 36 1 5 10 15
 38 att gct gct gac atg agt aat atc ata gaa aat ctg gac acg cg^g gaa 96
 39 Ile Ala Ala Asp Met Ser Asn Ile Ile Glu Asn Leu Asp Thr Arg Glu
 40 20 25 30
 42 ctc cac ttt gag gga gag gag gta gac tac gac gt^g tct ccc agc gat 144
 43 Leu His Phe Glu Gly Glu Val Asp Tyr Asp Val Ser Pro Ser Asp
 44 35 40 45
 46 ccc aag ata caa gaa gt^g tat atc cct ttc tct gct att tat aac act 192
 47 Pro Lys Ile Gln Glu Val Tyr Ile Pro Phe Ser Ala Ile Tyr Asn Thr
 48 50 55 60
 50 caa gga ttt aag gag cct aat ata cag acg tat ctc tcc ggc tgt cca 240
 51 Gln Gly Phe Lys Glu Pro Asn Ile Gln Thr Tyr Leu Ser Gly Cys Pro
 52 65 70 75 80
 54 ata aaa gca caa gtt ctg gaa gt^g gaa cgc ttc aca tct aca aca agg 288
 55 Ile Lys Ala Gln Val Leu Glu Val Glu Arg Phe Thr Ser Thr Thr Arg
 56 85 90 95
 58 gta cca agt att aat ctt tac act att gaa tta aca cat ggg gaa ttt 336
 59 Val Pro Ser Ile Asn Leu Tyr Thr Ile Glu Leu Thr His Gly Glu Phe
 60 100 105 110
 62 aaa tgg caa gtt aag agg aaa ttc aag cat ttt caa gaa ttt cac aga 384
 63 Lys Trp Gln Val Lys Arg Lys Phe Lys His Phe Gln Glu Phe His Arg

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Input Set : A:\PTO.AMC.txt
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66	gag ctg ctc aag tac aaa gcc ttt atc cgc atc ccc att ccc act aga			432
67	Glu Leu Leu Lys Tyr Lys Ala Phe Ile Arg Ile Pro Ile Pro Thr Arg			
68	130	135	140	
70	aga cac acg ttt agg agg caa aac gtc aga gag gag cct cga gag atg			480
71	Arg His Thr Phe Arg Arg Gln Asn Val Arg Glu Glu Pro Arg Glu Met			
72	145	150	155	160
74	ccc agt ttg ccc cgt tca tct gaa aac atg ata aga gaa gaa caa ttc			528
75	Pro Ser Leu Pro Arg Ser Ser Glu Asn Met Ile Arg Glu Glu Gln Phe			
76	165	170	175	
78	ctt ggt aga aga aaa caa ctg gaa gat tac ttg aca aag ata cta aaa			576
79	Leu Gly Arg Arg Lys Gln Leu Glu Asp Tyr Leu Thr Lys Ile Leu Lys			
80	180	185	190	
82	atg ccc atg tat aga aac tat cat gcc aca aca gag ttt ctt gat ata			624
83	Met Pro Met Tyr Arg Asn Tyr His Ala Thr Thr Glu Phe Leu Asp Ile			
84	195	200	205	
86	agc cag ctg tct ttc atc cat gat ttg gga cca aag ggc ata gaa ggt			672
87	Ser Gln Leu Ser Phe Ile His Asp Leu Gly Pro Lys Gly Ile Glu Gly			
88	210	215	220	
90	atg ata atg aaa aga tct gga gga cac aga ata cca ggc ttg aat tgc			720
91	Met Ile Met Lys Arg Ser Gly Gly His Arg Ile Pro Gly Leu Asn Cys			
92	225	230	235	240
94	tgt ggt cag gga aga gcc tgc tac aga tgg tca aaa aga tgg tta ata			768
95	Cys Gly Gln Gly Arg Ala Cys Tyr Arg Trp Ser Lys Arg Trp Leu Ile			
96	245	250	255	
98	gtg aaa gat tcc ttt tta ttg tat atg aaa cca gac agc ggt gcc att			816
99	Val Lys Asp Ser Phe Leu Leu Tyr Met Lys Pro Asp Ser Gly Ala Ile			
100	260	265	270	
102	gcc ttc gtc ctg ctg qta gac aaa gaa ttc aaa att aag gtg qgg aag			864
103	Ala Phe Val Leu Leu Val Asp Lys Glu Phe Lys Ile Lys Val Gly Lys			
104	275	280	285	
106	aag gag aca gaa acg aaa tat gga atc cga att gat aat ctt tca agg			912
107	Lys Glu Thr Glu Thr Lys Tyr Gly Ile Arg Ile Asp Asn Leu Ser Arg			
108	290	295	300	
110	aca ctt att tta aaa tgc aac agc tat aga cat gct cgg tgg tgg gga			960
111	Thr Leu Ile Leu Lys Cys Asn Ser Tyr Arg His Ala Arg Trp Trp Gly			
112	305	310	315	320
114	ggg gct ata gaa gaa ttc atc cag aaa cat ggc acc aac ttt ctc aaa			1008
115	Gly Ala Ile Glu Glu Phe Ile Gln Lys His Gly Thr Asn Phe Leu Lys			
116	325	330	335	
118	gat cat cga ttt ggg tca tat gct gct atc caa gag aat gct tta gct			1056
119	Asp His Arg Phe Gly Ser Tyr Ala Ala Ile Gln Glu Asn Ala Leu Ala			
120	340	345	350	
122	aaa tgg tat gtt aat gcc aaa gga tat ttt gaa gat qtg gca aat gca			1104
123	Lys Trp Tyr Val Asn Ala Lys Gly Tyr Phe Glu Asp Val Ala Asn Ala			
124	355	360	365	
126	atg gaa gag gca aat gaa gag att ttt atc aca gac tgg tgg ctg agt			1152
127	Met Glu Glu Ala Asn Glu Glu Ile Phe Ile Thr Asp Trp Trp Leu Ser			
128	370	375	380	

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Input Set : A:\PTO.AMC.txt
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130	cca gaa atc ttc ctg aaa cgc cca gtg gtt gag gga aat cgt tgg agg	1200
131	Pro Glu Ile Phe Leu Lys Arg Pro Val Val Glu Gly Asn Arg Trp Arg	
132	385 390 395 400	
134	ttg gac tgc att ctt aaa cga aaa gca caa caa gga gtg agg atc ttc	1248
135	Leu Asp Cys Ile Leu Lys Arg Ala Gln Gln Gly Val Arg Ile Phe	
136	405 410 415	
138	ata atg ctc tac aaa gag gtg gaa ctc gct ctt ggc atc aat agt gaa	1296
139	Ile Met Leu Tyr Lys Glu Val Glu Leu Ala Leu Gly Ile Asn Ser Glu	
140	420 425 430	
142	tac acc aag agg act ttg atg cgt cta cat ccc aac ata aag gtg atg	1344
143	Tyr Thr Lys Arg Thr Leu Met Arg Leu His Pro Asn Ile Lys Val Met	
144	435 440 445	
146	aga cac ccg gat cat gtg tca tcc acc gtc tat ttg tgg gct cac cat	1392
147	Arg His Pro Asp His Val Ser Ser Thr Val Tyr Leu Trp Ala His His	
148	450 455 460	
150	gag aag ctt gtc atc att gac caa tcg gtg gcc ttt gtg gga ggg att	1440
151	Glu Lys Leu Val Ile Ile Asp Gln Ser Val Ala Phe Val Gly Gly Ile	
152	465 470 475 480	
154	gac ctg gcc tat gga agg tgg gac gac aat gag cac aga ctc aca gac	1488
155	Asp Leu Ala Tyr Gly Arg Trp Asp Asp Asn Glu His Arg Leu Thr Asp	
156	485 490 495	
158	gtg ggc agt gtg aag cgg gtc act tca gga ccg tct ctg ggt tcc ctc	1536
159	Val Gly Ser Val Lys Arg Val Thr Ser Gly Pro Ser Leu Gly Ser Leu	
160	500 505 510	
162	cca cct gcc gca atg gag tct atg gaa tcc tta aga ctc aaa gat aaa	1584
163	Pro Pro Ala Ala Met Glu Ser Met Glu Ser Leu Arg Leu Lys Asp Lys	
164	515 520 525	
166	aat gag cct gtt caa aac cta ccc atc cag aag agt att gat gat gtg	1632
167	Asn Glu Pro Val Gln Asn Leu Pro Ile Gln Lys Ser Ile Asp Asp Val	
168	530 535 540	
170	gat tca aaa ctg aaa gga ata gga aag cca aga aag ttc tcc aaa ttt	1680
171	Asp Ser Lys Leu Lys Gly Ile Gly Lys Pro Arg Lys Phe Ser Lys Phe	
172	545 550 555 560	
174	agt ctc tac aag cag ctc cac agg cac cac ctg cac gac gca gat agc	1728
175	Ser Leu Tyr Lys Gln Leu His Arg His Leu His Asp Ala Asp Ser	
176	565 570 575	
178	atc agc agc att gac agc acc tcc agt tat ttt aat cac tat aga agt	1776
179	Ile Ser Ser Ile Asp Ser Thr Ser Ser Tyr Phe Asn His Tyr Arg Ser	
180	580 585 590	
182	cat cac aat tta atc cat ggt tta aaa ccc cac ttc aaa ctc ttt cac	1824
183	His His Asn Leu Ile His Gly Leu Lys Pro His Phe Lys Leu Phe His	
184	595 600 605	
186	ccg tcc agt gag tct gag caa gga ctc act aga cct cat gct gat acc	1872
187	Pro Ser Ser Glu Ser Glu Gln Gly Leu Thr Arg Pro His Ala Asp Thr	
188	610 615 620	
190	ggg tcc atc cgt agt tta cag aca ggt gtg gga gag ctg cat ggg gaa	1920
191	Gly Ser Ile Arg Ser Leu Gln Thr Gly Val Gly Glu Leu His Gly Glu	
192	625 630 635 640	
194	acc ttc tgg cat gga aag gac tac tgc aat ttc gtc ttc aaa gac	1968

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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05302006\J579662.raw

195	Thr Arg Phe Trp His Gly Lys Asp Tyr Cys Asn Phe Val Phe Lys Asp			
196	645	650	655	
198	tgg gtt caa ctt gat aaa cct ttt gct gat ttc att gac agg tac tcc			2016
199	Trp Val Gln Leu Asp Lys Pro Phe Ala Asp Phe Ile Asp Arg Tyr Ser			
200	660	665	670	
202	acg ccc cgg atg ccc tgg cat gac att gcc tct gca gtc cac ggg aag			2064
203	Thr Pro Arg Met Pro Trp His Asp Ile Ala Ser Ala Val His Gly Lys			
204	675	680	685	
206	gcg gct cgt gat gtg gca cgt cac ttc atc cag cgc tgg aac ttc aca			2112
207	Ala Ala Arg Asp Val Ala Arg His Phe Ile Gln Arg Trp Asn Phe Thr			
208	690	695	700	
210	aaa att atg aaa tca aaa tat cgg tcc ctt tct tat cct ttt ctg ctt			2160
211	Lys Ile Met Lys Ser Lys Tyr Arg Ser Leu Ser Tyr Pro Phe Leu Leu			
212	705	710	715	720
214	cca aag tct caa aca aca gcc cat gag ttg aga tat caa gtg cct ggg			2208
215	Pro Lys Ser Gln Thr Thr Ala His Glu Leu Arg Tyr Gln Val Pro Gly			
216	725	730	735	
218	tct gtc cat gct aac gta cag ttg ctc cgc tct gct gct gat tgg tct			2256
219	Ser Val His Ala Asn Val Gln Leu Leu Arg Ser Ala Ala Asp Trp Ser			
220	740	745	750	
222	gct ggt ata aag tac cat gaa gag tcc atc cac gcc gct tac gtc cat			2304
223	Ala Gly Ile Lys Tyr His Glu Glu Ser Ile His Ala Ala Tyr Val His			
224	755	760	765	
226	gtg ata gag aac agc agg cac tat atc tat atc gaa aac cag ttt ttc			2352
227	Val Ile Glu Asn Ser Arg His Tyr Ile Tyr Ile Glu Asn Gln Phe Phe			
228	770	775	780	
230	ata agc tgt gct gat gac aaa gtt gtg ttc aac aag ata ggc gat gcc			2400
231	Ile Ser Cys Ala Asp Asp Lys Val Val Phe Asn Lys Ile Gly Asp Ala			
232	785	790	795	800
234	att gcc cag agg atc ctg aaa gct cac agg gaa aac cag aaa tac cgg			2448
235	Ile Ala Gln Arg Ile Leu Lys Ala His Arg Glu Asn Gln Lys Tyr Arg			
236	805	810	815	
238	gta tat gtc gtg ata cca ctt ctg cca ggg ttc gaa gga gac att tca			2496
239	Val Tyr Val Val Ile Pro Leu Leu Pro Gly Phe Glu Gly Asp Ile Ser			
240	820	825	830	
242	acc ggc gga aat gct cta cag gca atc atg cac ttc aac tac aga			2544
243	Thr Gly Gly Asn Ala Leu Gln Ala Ile Met His Phe Asn Tyr Arg			
244	835	840	845	
246	acc atg tgc aga gga aat tcc atc ctt gga cag tta aaa gca gag			2592
247	Thr Met Cys Arg Gly Glu Asn Ser Ile Leu Gly Gln Leu Lys Ala Glu			
248	850	855	860	
250	ctt ggt aat cag tgg ata aat tac ata tca ttc tgt ggt ctt aga aca			2640
251	Leu Gly Asn Gln Trp Ile Asn Tyr Ile Ser Phe Cys Gly Leu Arg Thr			
252	865	870	875	880
254	cat gca gag ctc gaa gga aac cta gta act gag ctt atc tat gtc cac			2688
255	His Ala Glu Leu Glu Gly Asn Leu Val Thr Glu Leu Ile Tyr Val His			
256	885	890	895	
258	agc aag ttg tta att gct gat gat aac act gtt att att ggc tct gcc			2736
259	Ser Lys Leu Leu Ile Ala Asp Asn Thr Val Ile Ile Gly Ser Ala			

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PATENT APPLICATION: US/10/579,662

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TIME: 16:07:42

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05302006\J579662.raw

260	900	905	910	
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264	915	920	925	
266	gtc att gtg caa gat aca gag act gtt cct tca gta atg gat gga aaa			2832
267	Val Ile Val Gln Asp Thr Glu Thr Val Pro Ser Val Met Asp Gly Lys			
268	930	935	940	
270	gag tac caa gct ggc cggtt gcc cga gga ctt cggtt cta cag tgc ttt			2880
271	Glu Tyr Gln Ala Gly Arg Phe Ala Arg Gly Leu Arg Leu Gln Cys Phe			
272	945	950	955	960
274	agg gtt gtc ctt ggc tat ctt gat gac cca agt gag gac att cag gat			2928
275	Arg Val Val Leu Gly Tyr Leu Asp Asp Pro Ser Glu Asp Ile Gln Asp			
276	965	970	975	
278	cca gtg agt gac aaa ttc ttc aag gag gtg tgg gtt tca aca gca gct			2976
279	Pro Val Ser Asp Lys Phe Phe Lys Glu Val Trp Val Ser Thr Ala Ala			
280	980	985	990	
282	cga aat gct aca att tat gac aag gtt ttc cggtt ccc aat gat			3024
283	Arg Asn Ala Thr Ile Tyr Asp Lys Val Phe Arg Cys Leu Pro Asn Asp			
284	995	1000	1005	
286	gaa gta cac aat tta att cag ctg aga gac ttt ata aac aag ccc			3069
287	Glu Val His Asn Leu Ile Gln Leu Arg Asp Phe Ile Asn Lys Pro			
288	1010	1015	1020	
290	gta tta gct aag gaa gat ccc att cga gct gag gag gaa ctg aag			3114
291	Val Leu Ala Lys Glu Asp Pro Ile Arg Ala Glu Glu Glu Leu Lys			
292	1025	1030	1035	
294	aag atc cgt gga ttt ttg gtg caa ttc ccc ttt tat ttc ttg tct			3159
295	Lys Ile Arg Gly Phe Leu Val Gln Phe Pro Phe Tyr Phe Leu Ser			
296	1040	1045	1050	
298	gaa gaa agc cta ctg cct tct gtt ggg acc aaa gag gcc ata gtg			3204
299	Glu Glu Ser Leu Leu Pro Ser Val Gly Thr Lys Glu Ala Ile Val			
300	1055	1060	1065	
302	ccc atg gag gtt tgg act taa			3225
303	Pro Met Glu Val Trp Thr			
304	1070			
307	<210> SEQ ID NO: 2			
308	<211> LENGTH: 1074			
309	<212> TYPE: PRT			
310	<213> ORGANISM: Homo sapiens			
312	<400> SEQUENCE: 2			
314	Met Ser Leu Lys Asn Glu Pro Arg Val Asn Thr Ser Ala Leu Gln Lys			
315	1	5	10	15
318	Ile Ala Ala Asp Met Ser Asn Ile Ile Glu Asn Leu Asp Thr Arg Glu			
319	20	25	30	
322	Leu His Phe Glu Gly Glu Glu Val Asp Tyr Asp Val Ser Pro Ser Asp			
323	35	40	45	
326	Pro Lys Ile Gln Glu Val Tyr Ile Pro Phe Ser Ala Ile Tyr Asn Thr			
327	50	55	60	
330	Gln Gly Phe Lys Glu Pro Asn Ile Gln Thr Tyr Leu Ser Gly Cys Pro			
331	65	70	75	80

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/579,662

DATE: 05/30/2006

TIME: 16:07:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05302006\J579662.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/579,662

DATE: 05/26/2006
TIME: 08:27:02

Input Set : A:\133-PCT1-US1.ST25.txt
Output Set: N:\CRF4\05262006\J579662.raw

3 <110> APPLICANT: ELENA FEINSTEIN et al.
5 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF KIDNEY FIBROSIS AND OTHER

FIBROTIC

Change to C-->
6 DISEASE
8 <130> FILE REFERENCE: 71541-A-PCT-US; 133/PCT1-US1
10 <140> CURRENT APPLICATION NUMBER: US/10/579,662
W--> 11 <140> CURRENT APPLICATION NUMBER: Herethwith
C--> 13

*Does Not Comply
Corrected Diskette Needed*

L1417
13 <150> PRIOR APPLICATION NUMBER: 60/520,935
14 <151> PRIOR FILING DATE: 2003-11-17
16 <150> PRIOR APPLICATION NUMBER: PCT/IL 2004/001049
17 <151> PRIOR FILING DATE: 2004-11-16
19 <160> NUMBER OF SEQ ID NOS: 8
21 <170> SOFTWARE: PatentIn version 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 3225
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(3225)
33 <400> SEQUENCE: 1

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36 1 5 10 15	
38 att gct gct gac atg agt aat atc ata gaa aat ctg gac acg cgg gaa	96
39 Ile Ala Ala Asp Met Ser Asn Ile Ile Glu Asn Leu Asp Thr Arg Glu	
40 20 25 30	
42 ctc cac ttt gag gga gag gag gta gac tac gac gtg tct ccc agc gat	144
43 Leu His Phe Glu Gly Glu Val Asp Tyr Asp Val Ser Pro Ser Asp	
44 35 40 45	
46 ccc aag ata caa gaa gtg tat atc cct ttc tct gct att tat aac act	192
47 Pro Lys Ile Gln Glu Val Tyr Ile Pro Phe Ser Ala Ile Tyr Asn Thr	
48 50 55 60	
50 caa gga ttt aag gag cct aat ata cag acg tat ctc tcc ggc tgt cca	240
51 Gln Gly Phe Lys Glu Pro Asn Ile Gln Thr Tyr Leu Ser Gly Cys Pro	
52 65 70 75 80	
54 ata aaa gca caa gtt ctg gaa gtg gaa cgc ttc aca tct aca aca agg	288
55 Ile Lys Ala Gln Val Leu Glu Val Glu Arg Phe Thr Ser Thr Arg	
56 85 90 95	
58 gta cca agt att aat ctt tac act att gaa tta aca cat ggg gaa ttt	336
59 Val Pro Ser Ile Asn Leu Tyr Thr Ile Glu Leu Thr His Gly Glu Phe	
60 100 105 110	
62 aaa tgg caa gtt aag agg aaa ttc aag cat ttt caa gaa ttt cac aga	384

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PATENT APPLICATION: US/10/579,662

DATE: 05/26/2006

TIME: 08:27:02

Input Set : A:\133-PCT1-US1.ST25.txt
 Output Set: N:\CRF4\05262006\J579662.raw

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66	gag ctg ctc aag tac aaa gcc ttt atc cgc atc ccc att ccc act aga	432		
67	Glu Leu Leu Lys Tyr Lys Ala Phe Ile Arg Ile Pro Ile Pro Thr Arg			
68	130	135	140	
70	aga cac acg ttt agg agg caa aac gtc aga gag gag cct cga gag atg	480		
71	Arg His Thr Phe Arg Arg Gln Asn Val Arg Glu Glu Pro Arg Glu Met			
72	145	150	155	160
74	ccc agt ttg ccc cgt tca tct gaa aac atg ata aga gaa gaa caa ttc	528		
75	Pro Ser Leu Pro Arg Ser Ser Glu Asn Met Ile Arg Glu Glu Gln Phe			
76	165	170	175	
78	ctt ggt aga aga aaa caa ctg gaa gat tac ttg aca aag ata cta aaa	576		
79	Leu Gly Arg Arg Lys Gln Leu Glu Asp Tyr Leu Thr Lys Ile Leu Lys			
80	180	185	190	
82	atg ccc atg tat aga aac tat cat gcc aca aca gag ttt ctt gat ata	624		
83	Met Pro Met Tyr Arg Asn Tyr His Ala Thr Thr Glu Phe Leu Asp Ile			
84	195	200	205	
86	agc cag ctg tct ttc atc cat gat ttg gga cca aag ggc ata gaa ggt	672		
87	Ser Gln Leu Ser Phe Ile His Asp Leu Gly Pro Lys Gly Ile Glu Gly			
88	210	215	220	
90	atg ata atg aaa aga tct gga gga cac aga ata cca ggc ttg aat tgc	720		
91	Met Ile Met Lys Arg Ser Gly Gly His Arg Ile Pro Gly Leu Asn Cys			
92	225	230	235	240
94	tgt ggt cag gga aga gcc tgc tac aga tgg tca aaa aga tgg tta ata	768		
95	Cys Gly Gln Gly Arg Ala Cys Tyr Arg Trp Ser Lys Arg Trp Leu Ile			
96	245	250	255	
98	gtg aaa gat tcc ttt tta ttg tat atg aaa cca gac agc ggt gcc att	816		
99	Val Lys Asp Ser Phe Leu Leu Tyr Met Lys Pro Asp Ser Gly Ala Ile			
100	260	265	270	
102	gcc ttc gtc ctg ctg gta gac aaa gaa ttc aaa att aag gtg ggg aag	864		
103	Ala Phe Val Leu Leu Val Asp Lys Glu Phe Lys Ile Lys Val Gly Lys			
104	275	280	285	
106	aag gag aca gaa acg aaa tat gga atc cga att gat aat ctt tca agg	912		
107	Lys Glu Thr Glu Thr Lys Tyr Gly Ile Arg Ile Asp Asn Leu Ser Arg			
108	290	295	300	
110	aca ctt att tta aaa tgc aac agc tat aga cat gct cgg tgg tgg gga	960		
111	Thr Leu Ile Leu Lys Cys Asn Ser Tyr Arg His Ala Arg Trp Trp Gly			
112	305	310	315	320
114	ggg gct ata gaa gaa ttc atc cag aaa cat ggc acc aac ttt ctc aaa	1008		
115	Gly Ala Ile Glu Glu Phe Ile Gln Lys His Gly Thr Asn Phe Leu Lys			
116	325	330	335	
118	gat cat cga ttt ggg tca tat gct gct atc caa gag aat gct tta gct	1056		
119	Asp His Arg Phe Gly Ser Tyr Ala Ala Ile Gln Glu Asn Ala Leu Ala			
120	340	345	350	
122	aaa tgg tat gtt aat gcc aaa gga tat ttt gaa gat gtg gca aat gca	1104		
123	Lys Trp Tyr Val Asn Ala Lys Gly Tyr Phe Glu Asp Val Ala Asn Ala			
124	355	360	365	
126	atg gaa gag gca aat gaa gag att ttt atc aca gac tgg tgg ctg agt	1152		
127	Met Glu Glu Ala Asn Glu Glu Ile Phe Thr Asp Trp Trp Leu Ser			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/579,662

DATE: 05/26/2006
TIME: 08:27:02

Input Set : A:\133-PCT1-US1.ST25.txt
Output Set: N:\CRF4\05262006\J579662.raw

128	370	375	380	
130	cca gaa atc ttc ctg aaa cgc cca gtg gtt gag gga aat cgt tgg agg			1200
131	Pro Glu Ile Phe Leu Lys Arg Pro Val Val Glu Gly Asn Arg Trp Arg			
132	385	390	395	400
134	ttg gac tgc att ctt aaa cga aaa gca caa caa gga gtg agg atc ttc			1248
135	Leu Asp Cys Ile Leu Lys Arg Lys Ala Gln Gln Gly Val Arg Ile Phe			
136	405	410	415	
138	ata atg ctc tac aaa gag gtg gaa ctc gct ctt ggc atc aat agt gaa			1296
139	Ile Met Leu Tyr Lys Glu Val Glu Leu Ala Leu Gly Ile Asn Ser Glu			
140	420	425	430	
142	tac acc aag agg act ttg atg cgt cta cat ccc aac ata aag gtg atg			1344
143	Tyr Thr Lys Arg Thr Leu Met Arg Leu His Pro Asn Ile Lys Val Met			
144	435	440	445	
146	aga cac ccg gat cat gtg tca tcc acc gtc tat ttg tgg gct cac cat			1392
147	Arg His Pro Asp His Val Ser Ser Thr Val Tyr Leu Trp Ala His His			
148	450	455	460	
150	gag aag ctt gtc atc att gac caa tcg gtg gcc ttt gtg gga ggg att			1440
151	Glu Lys Leu Val Ile Ile Asp Gln Ser Val Ala Phe Val Gly Gly Ile			
152	465	470	475	480
154	gac ctg gcc tat gga agg tgg gac gac aat gag cac aga ctc aca gac			1488
155	Asp Leu Ala Tyr Gly Arg Trp Asp Asp Asn Glu His Arg Leu Thr Asp			
156	485	490	495	
158	gtg ggc agt gtg aag cgg gtc act tca gga ccg tct ctg ggt tcc ctc			1536
159	Val Gly Ser Val Lys Arg Val Thr Ser Gly Pro Ser Leu Gly Ser Leu			
160	500	505	510	
162	cca cct gcc gca atg gag tct atg gaa tcc tta aga ctc aaa gat aaa			1584
163	Pro Pro Ala Ala Met Glu Ser Met Glu Ser Leu Arg Leu Lys Asp Lys			
164	515	520	525	
166	aat gag cct gtt caa aac cta ccc atc cag aag agt att gat gat gtg			1632
167	Asn Glu Pro Val Gln Asn Leu Pro Ile Gln Lys Ser Ile Asp Asp Val			
168	530	535	540	
170	gat tca aaa ctg aaa gga ata gga aag cca aga aag ttc tcc aaa ttt			1680
171	Asp Ser Lys Leu Lys Gly Ile Gly Lys Pro Arg Lys Phe Ser Lys Phe			
172	545	550	555	560
174	agt ctc tac aag cag ctc cac agg cac cac ctg cac gac gca gat agc			1728
175	Ser Leu Tyr Lys Gln Leu His Arg His His Leu His Asp Ala Asp Ser			
176	565	570	575	
178	atc agc agc att gac agc acc tcc agt tat ttt aat cac tat aga agt			1776
179	Ile Ser Ser Ile Asp Ser Thr Ser Ser Tyr Phe Asn His Tyr Arg Ser			
180	580	585	590	
182	cat cac aat tta atc cat ggt tta aaa ccc cac ttc aaa ctc ttt cac			1824
183	His His Asn Leu Ile His Gly Leu Lys Pro His Phe Lys Leu Phe His			
184	595	600	605	
186	ccg tcc agt gag caa gga ctc act aga cct cat gct gat acc			1872
187	Pro Ser Ser Glu Ser Glu Gln Gly Leu Thr Arg Pro His Ala Asp Thr			
188	610	615	620	
190	ggg tcc atc cgt agt tta cag aca ggt gtg gga gag ctg cat ggg gaa			1920
191	Gly Ser Ile Arg Ser Leu Gln Thr Gly Val Gly Glu Leu His Gly Glu			
192	625	630	635	640

RAW SEQUENCE LISTING

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Input Set : A:\133-PCT1-US1.ST25.txt
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194 acc aga ttc tgg cat gga aag gac tac tgc aat ttc gtc ttc aaa gac	1968
195 Thr Arg Phe Trp His Gly Lys Asp Tyr Cys Asn Phe Val Phe Lys Asp	
196 645 650 655	
198 tgg gtt caa ctt gat aaa cct ttt gct gat ttc att gac agg tac tcc	2016
199 Trp Val Gln Leu Asp Lys Pro Phe Ala Asp Phe Ile Asp Arg Tyr Ser	
200 660 665 670	
202 acg ccc cgg atg ccc tgg cat gac att gcc tct gca gtc cac ggg aag	2064
203 Thr Pro Arg Met Pro Trp His Asp Ile Ala Ser Ala Val His Gly Lys	
204 675 680 685	
206 gcg gct cgt gat gtg gca cgt cac ttc atc cag cgc tgg aac ttc aca	2112
207 Ala Ala Arg Asp Val Ala Arg His Phe Ile Gln Arg Trp Asn Phe Thr	
208 690 695 700	
210 aaa att atg aaa tca aaa tat cgg tcc ctt tct tat cct ttt ctg ctt	2160
211 Lys Ile Met Lys Ser Lys Tyr Arg Ser Leu Ser Tyr Pro Phe Leu Leu	
212 705 710 715 720	
214 cca aag tct caa aca aca gcc cat gag ttg aga tat caa gtg cct ggg	2208
215 Pro Lys Ser Gln Thr Thr Ala His Glu Leu Arg Tyr Gln Val Pro Gly	
216 725 730 735	
218 tct gtc cat gct aac gta cag ttg ctc cgc tct gct gct gat tgg tct	2256
219 Ser Val His Ala Asn Val Gln Leu Leu Arg Ser Ala Ala Asp Trp Ser	
220 740 745 750	
222 gct ggt ata aag tac cat gaa gag tcc atc cac gcc gct tac gtc cat	2304
223 Ala Gly Ile Lys Tyr His Glu Glu Ser Ile His Ala Ala Tyr Val His	
224 755 760 765	
226 gtg ata gag aac agc agg cac tat atc tat atc gaa aac cag ttt ttc	2352
227 Val Ile Glu Asn Ser Arg His Tyr Ile Tyr Ile Glu Asn Gln Phe Phe	
228 770 775 780	
230 ata agc tgt gct gat gac aaa gtt gtg ttc aac aag ata ggc gat gcc	2400
231 Ile Ser Cys Ala Asp Asp Lys Val Val Phe Asn Lys Ile Gly Asp Ala	
232 785 790 795 800	
234 att gcc cag agg atc ctg aaa gct cac agg gaa aac cag aaa tac cgg	2448
235 Ile Ala Gln Arg Ile Leu Lys Ala His Arg Glu Asn Gln Lys Tyr Arg	
236 805 810 815	
238 gta tat gtc gtg ata cca ctt ctg cca ggg ttc gaa gga gac att tca	2496
239 Val Tyr Val Val Ile Pro Leu Leu Pro Gly Phe Glu Gly Asp Ile Ser	
240 820 825 830	
242 acc ggc gga gga aat gct cta cag gca atc atg cac ttc aac tac aga	2544
243 Thr Gly Gly Asn Ala Leu Gln Ala Ile Met His Phe Asn Tyr Arg	
244 835 840 845	
246 acc atg tgc aga gga gaa aat tcc atc ctt gga cag tta aaa gca gag	2592
247 Thr Met Cys Arg Gly Glu Asn Ser Ile Leu Gly Gln Leu Lys Ala Glu	
248 850 855 860	
250 ctt ggt aat cag tgg ata aat tac ata tca ttc tgt ggt ctt aga aca	2640
251 Leu Gly Asn Gln Trp Ile Asn Tyr Ile Ser Phe Cys Gly Leu Arg Thr	
252 865 870 875 880	
254 cat gca gag ctc gaa gga aac cta gta act gag ctt atc tat gtc cac	2688
255 His Ala Glu Leu Glu Gly Asn Leu Val Thr Glu Leu Ile Tyr Val His	
256 885 890 895	
258 agc aag ttg tta att gct gat gat aac act gtt att att ggc tct gcc	2736

RAW SEQUENCE LISTING

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Input Set : A:\133-PCT1-US1.ST25.txt

Output Set: N:\CRF4\05262006\J579662.raw

259	Ser	Lys	Leu	Leu	Ile	Ala	Asp	Asp	Asn	Thr	Val	Ile	Ile	Gly	Ser	Ala
260		900			905									910		
262	aac	ata	aat	gac	cgc	agc	atg	ctg	gga	aag	cgt	gac	agt	gaa	atg	gct
263	Asn	Ile	Asn	Asp	Arg	Ser	Met	Leu	Gly	Lys	Arg	Asp	Ser	Glu	Met	Ala
264		915				920								925		
266	gtc	att	gtg	caa	gat	aca	gag	act	gtt	cct	tca	gta	atg	gat	gga	aaa
267	Val	Ile	Val	Gln	Asp	Thr	Glu	Thr	Val	Pro	Ser	Val	Met	Asp	Gly	Lys
268		930			935									940		
270	gag	tac	caa	gct	ggc	cgg	ttt	gcc	cga	gga	ctt	cg	cta	cag	tgc	ttt
271	Glu	Tyr	Gln	Ala	Gly	Arg	Phe	Ala	Arg	Gly	Leu	Arg	Leu	Gln	Cys	Phe
272	945		950				955							960		
274	agg	gtt	gtc	ctt	ggc	tat	ctt	gat	gac	cca	agt	gag	gac	att	cag	gat
275	Arg	Val	Val	Leu	Gly	Tyr	Leu	Asp	Asp	Pro	Ser	Glu	Asp	Ile	Gln	Asp
276		965			970									975		
278	cca	gtg	agt	gac	aaa	tcc	tcc	aag	gag	gtg	tgg	gtt	tca	aca	gca	gct
279	Pro	Val	Ser	Asp	Lys	Phe	Phe	Lys	Glu	Val	Trp	Val	Ser	Thr	Ala	Ala
280		980			985									990		
282	cga	aat	gct	aca	att	tat	gac	aag	gtt	tcc	cg	tgc	ctt	ccc	aat	gat
283	Arg	Asn	Ala	Thr	Ile	Tyr	Asp	Lys	Val	Phe	Arg	Cys	Leu	Pro	Asn	Asp
284		995			1000									1005		
286	gaa	gta	cac	aat	tta	att	cag	ctg	aga	gac	ttt	ata	aac	aag	ccc	
287	Glu	Val	His	Asn	Leu	Ile	Gln		Leu	Arg	Asp	Phe	Ile	Asn	Lys	Pro
288		1010				1015								1020		
290	gta	tta	gct	aag	gaa	gat	ccc	att	cga	gct	gag	gag	gaa	ctg	aag	
291	Val	Leu	Ala	Lys	Glu	Asp	Pro	Ile	Arg	Ala	Glu	Glu	Glu	Leu	Lys	
292		1025				1030								1035		
294	aag	atc	cgt	gga	ttt	ttg	gtg	caa	tcc	ccc	ttt	tat	ttc	ttg	tct	
295	Lys	Ile	Arg	Gly	Phe	Leu	Val	Gln	Phe	Pro	Phe	Tyr	Phe	Leu	Ser	
296		1040			1045									1050		
298	gaa	gaa	agc	cta	ctg	cct	tct	gtt	ggg	acc	aaa	gag	gcc	ata	gtg	
299	Glu	Glu	Ser	Leu	Leu	Pro	Ser	Val	Gly	Thr	Lys	Glu	Ala	Ile	Val	
300		1055			1060									1065		
302	ccc	atg	gag	gtt	tgg	act	taa									3225
303	Pro	Met	Glu	Val	Trp	Thr										
304		1070														
307	<210>	SEQ	ID	NO:	2											
308	<211>	LENGTH:	1074													
309	<212>	TYPE:	PRT													
310	<213>	ORGANISM:	Homo sapiens													
312	<400>	SEQUENCE:	2													
314	Met	Ser	Leu	Lys	Asn	Glu	Pro	Arg	Val	Asn	Thr	Ser	Ala	Leu	Gln	Lys
315	1			5				10						15		
318	Ile	Ala	Ala	Asp	Met	Ser	Asn	Ile	Ile	Glu	Asn	Leu	Asp	Thr	Arg	Glu
319				20				25						30		
322	Leu	His	Phe	Glu	Gly	Glu	Glu	Val	Asp	Tyr	Asp	Val	Ser	Pro	Ser	Asp
323			35			40								45		
326	Pro	Lys	Ile	Gln	Glu	Val	Tyr	Ile	Pro	Phe	Ser	Ala	Ile	Tyr	Asn	Thr
327		50			55									60		
330	Gln	Gly	Phe	Lys	Glu	Pro	Asn	Ile	Gln	Thr	Tyr	Leu	Ser	Gly	Cys	Pro

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/579,662

DATE: 05/26/2006

TIME: 08:27:03

Input Set : A:\133-PCT1-US1.ST25.txt

Output Set: N:\CRF4\05262006\J579662.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:283 W: Missing Blank Line separator, <140> field identifier

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date